

PHINMS 2.8.01 SP1 Release Notes

Public Health Information Network Messaging System (PHINMS)

Version: 1.0

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REVISION HISTORY

Version #	Implementer	Date	Explanation
1.0	PHINMS Support	11-05-10	Create 2.8.01 SP1 Release Notes

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ACRONYMS

AJP	Apache JServ Protocol
CA	Certificate Authority
CDC	Centers for Disease Control and Prevention
CPA	Collaboration Protocol Agreement
DN	Distinguished Name
DSN	Data Source Name
GA	General Availability
GUI	Graphical User Interface
HSQL	HyperXtreme Structured Query Language
HSQLDB	HyperXtreme Structured Query Language Database
HTTP	Hyper Text Transfer Protocol
JBDC	Java Database Connectivity
JDK	Java Development Kit
JVM	Java Virtual Memory
LDAP	Lightweight Directory Access Protocol
ODBC	Open Database Connectivity
PHINMS	Public Health Information Network Messaging System
SP1	Service Pack 1
SQL	Structured Query Language
SMTP	Simple Mail Transport Protocol
SSL	Secure Socket Layer
TransportQ	Transport Queue
URL	Uniform Resource Locator
WAR	Web Archive
XML	Extensible Markup Language

1 INTRODUCTION

1.1 Objective

The Centers for Disease Control and Prevention (CDC) Public Health Information Network Messaging System (PHINMS) Release Notes communicate the changes in the PHINMS version 2.8.01 SP1 software. It also documents known problems and workarounds. This document is intended for users, developers, and IT support staff.

Note: Navigate to www.cdc.gov/phinf/phinms when this manual references the PHINMS website.

1.2 Scope

This document describes new features and bug fixes made since PHINMS release 2.8.01 along with explaining the upgrade path.

1.3 References

PHINMS 2.8.01 General Release documentation will not change with this release. Please continue to refer to all PHINMS 2.8 Implementation and Technical Reference documentation on the CDC PHINMS web site.

Name	Location
Quick How Tos	Located at www.cdc.gov/phinf/phinms .
PHINMS 2.8 Implementation Guide	Steps to install, upgrade, and configure PHINMS 2.8.01 Located at: http://www.cdc.gov/phinf/activities/applications-services/phinms/installation.html

1.4 Communiqués

The PHINMS Team responds to user's communiqués. Send questions, suggestions, and/or comments concerning PHINMS support or documentation to the PHINMS website using the Contact PHINMS email link located at the top of the home page.

2 RELEASE INFORMATION

PHINMS 2.8.01 SP1 release is a minor service pack release supporting 2.8.01. This release supports clean installations and upgrades from 2.8.00 and 2.8.01 only. 2.8.01 Service Pack 1 includes support for installation on new Windows operating systems, bug fixes, and Tomcat software updates. PHINMS version 2.7.01 upgrade support is not provided with this release but will be considered in the following service pack release.

2.1 Compatible Products

This product has been tested on the following platforms with the following requirements:

- Operating systems:
 - Windows 2003 Server (Standard and Enterprise) SP2
 - Windows XP Pro SP3
 - Windows 7
 - Windows 2008 (32 and 64 bit)
- Certified Databases:
 - Default Database - used for testing purposes:
 - HSQL DB 1.8.0.4
 - Production Quality Databases:
 - Microsoft SQL Server 2005 and 2008
 - Oracle 11g Release 1
- Application Servers:
 - Tomcat 6.0.26
- Receiver Side Proxy Servers:
 - IIS 6.0 with Jakarta Tomcat Connector 1.2.27
- JDBC drivers

DB Type	DB Version	JDBC Driver Name	Type	Version	Date Published
MS SQL	2005/2008	sqljdbc.jar	4	1.2.2828	10/11/2007
MS SQL	2008	sqljdbc4.jar	4	2.0.1803	3/25/2009
Oracle	11g Rel 1	ojdbc6.jar	4	11.1.0.7.0	08/28/2008

Note: PHINMS has tested certain JDBC drivers to connect to the supported databases and found no issues based on the tests performed. PHINMS does not guarantee nor support these JDBC driver versions. It is the responsibility of the PHINMS customer to decide which JDBC driver to use. The table above is provided for reference purposes only.

2.2 Resource Requirements

- Local administrator for Windows platforms
- Minimum Disk space: 512 MB
- Minimum Memory: 1024 MB

2.3 New Installs

The Installation wizard guides the user through the base installation of the PHINMS Sender and/or Receiver. It is the responsibility of the administrator to configure routes and database connections after completing the installation. The following major components are installed with the wizard:

- Tomcat 6.0.26 server,
- JDK 1.6.0 Update 3 (1.6.0_03-b05),
- PHINMS 2.8.01 SP1 Receiver and Sender web applications,
- PHINMS 2.8.01 SP1 default configuration files and directory structure,
- PHINMS Remote administration console (If chosen during the installation) and
- Default database: Windows: HSQLDB 1.8.0.4 engine.

When PHINMS software is installed, Tomcat 6.0.26 will be installed in the Windows services panel with the display name of “PHINMS Tomcat Instance” and HSQLDB with “PHINMS Database Engine Service”.

When installed as a Windows service, the default startup type is configured as “Automatic”.

The alternative way to start PHINMS instance is as follows:

- <INSTALL-DIR>\bin\startPHINMSwithHSQL.bat to start the PHINMS Server (Sender and/or Receiver).

When the Tomcat server is running, the console can be run by doing any of the following:

- Select “PHINMS Console” from “Program Menu” or
- Double clicking <INSTALL-DIR>\bin\phinmsConsole.exe file.
- The PHINMS console is protected by a username and password by default. Contact PHINMS Help Desk by email phintech@cdc.gov or calling 1-800-532-9929 option 2 for the default console username and password and then change the default password.

2.4 Upgrades

2.5 Upgrade from 2.8.00 and 2.8.01 to 2.8.01 SP1

PHINMS 2.8.01 SP1 supports an upgrade from 2.8.00 or later. End users have to provide previous installation and path to find the files to be upgraded and provide the new path for installing newer version.

Administrators need to un-install the previous version manually and delete the respective files after the upgrade has been effectively done and tested.

Note: PHINMS installation requires a new empty folder as the target of the install. If it's desired that PHINMS continues to run on the same folder, it is recommended that the current folder be renamed. That way, the desired name can be given to the PHINMS install as the final target directory, and the renamed folder be given as the previous installation path.

2.6 Upgrade of Prior Versions (2.5x, 2.6x, and 2.7x)

Upgrade from versions prior to PHINMS 2.8.01 SP1 is not supported. End users have to upgrade the prior versions to PHINMS 2.8.01 and then upgrade to PHINMS 2.8.01 SP1. PHINMS 2.8.01 can be obtained by contacting the CDC PHIN Helpdesk at PHINtech@cdc.gov

2.7 Re-installing 2.8.01 SP1

PHINMS 2.8.01 SP1 does not support reinstalling PHINMS 2.8.01 SP1 to the same install directory. The administrator must choose new install and a new install path from the wizard.

3 PHINMS 2.8.01 SP1 CHANGES

The new features included in PHINMS 2.8.01 SP1 are listed in this section. More details on many of the existing features are documented in the PHINMS 2.8 Implementation Guide.

3.1 Tomcat Updates

Tomcat v. 6.0.26

PHINMS has updated the core Tomcat software in 2.8.01 sp1. For more information about Tomcat, Please refer to <http://tomcat.apache.org>.

3.2 PHINMS Updates

Support for Windows Vista, 7 and 2008

The PHINMS 2.8.01 SP1 installation package supports new installations and upgrades on the Windows Vista, Windows 7, and Windows 2008 operating systems.

Note: PHINMS continues to be a 32-bit application using Tomcat and JDK 32-bit versions.

PHINMS Dialog Box

PHINMS has fixed the defect causing a message box to incorrectly appear indicating that PHINMS was “Restarted, but with irregularities”.

Delete All Alarms

PHINMS has included a new feature allowing administrators to “Delete All Alarms”. This allows PHINMS Administrators to erase all pre-existing alarms and focus future efforts on new alarms.

Table View Filter

PHINMS has introduced a Table View Filter in the main console window. Users can now choose to view messages according to the following options:

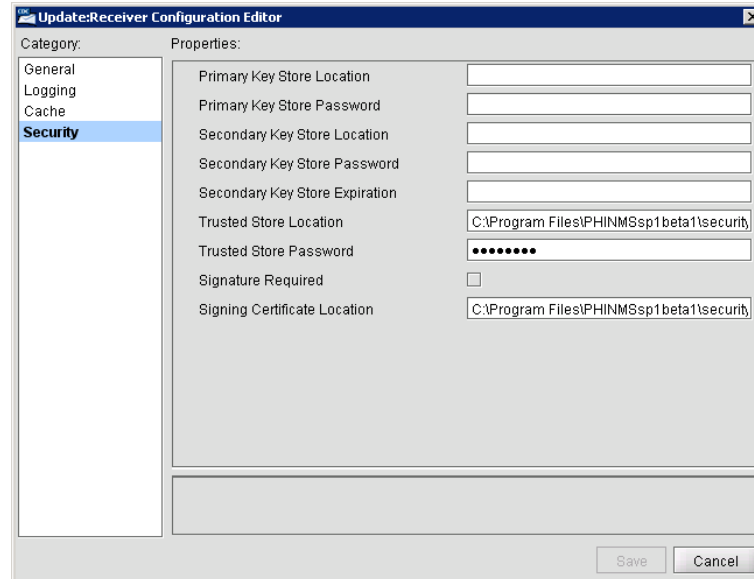
- Queued
- Attempted
- Failed
- Success

Oracle Database Insert Errors

PHINMS has fixed the Oracle defect causing insert errors when “Payload to Disk” was not checked. In 2.8.01, the work around was to configure the “LocalFileName” column in the database to allow nulls.

Receiver Secondary Keystore

PHINMS has added the ability for PHINMS Receivers to manually configure a Secondary Keystore for decrypting data. This is useful when nearing the expiration of a decryption certificate.



An example scenario is illustrated below to explain the Primary and Secondary keystore settings:

- Cert A – Received April 4th, 2009 (expires April 4th, 2010)
- Cert B – Received March 10th, 2010
 - Cert B was requested and received shortly after the 30 warning email informed her that Cert A would expire on April 4th, 2010.

Primary Key Store Location – Path to Cert B.

Primary Key Store Password – Password used when exporting the cert from IE or Netscape.

Secondary Key Store Location – Path to Cert A.

Secondary Key Store Password – Password used when exporting the cert from IE or Netscape.

Secondary Key Store Expiration – The date you wish to stop using Cert A to decrypt messages.

**** NOTE **** The Secondary Keystore Expiration does not have to be the day the cert expires. It is frequently in your interest to set this expiration 3-5 days after the actual expiration of Cert B. This will reduce the chance for problems caused by cached encryption keys on PHINMS Senders.

Database Configuration Defect

PHINMS has fixed defects causing corrupted configurations when saving Receiver database properties.

LDAP Cache Enhancements

PHINMS has improved the LDAP Cache functionality in an effort to reduce potential for encrypted payloads based on expired keys. In addition, PHINMS has added a “Delete LDAP Cache” button in the Sender-> General [LDAP] configuration pane to allow customers to manually delete cache during troubleshooting.

Other minor updates

- Saving formatted XML files - The console now saves the configuration xml files in a nice human readable format
- Removed Ping Route. Customer should ping CDC Staging and Production systems for internet connectivity testing.
- Migrating old cacerts and certificate files to new install path (if being used under config/sender and config/receiver folder)
- Added confirmation dialog box when deleting alarms
- RnR messages being properly displayed on the console.
- Migrating old installation paths of CPA files and Transport queue outgoing folders.
- SQL server URLs that make use of aliases not being damaged on upgrades

4. PHINMS KNOWN ISSUES

The following are either known bugs with the product and not yet addressed or limitations of the product which will be taken into consideration:

4.1 PHINMS 2.8.01 SP1 Limitations

- While selecting database type for TransportQ and WorkerQ, one of the drop-down list options indicates “Access.” The MS Access database is not supported in PHINMS 2.8. Please choose the other database types from the list. This option will be removed in a future release.
- In the scenario where a Receiver-side service/action pair is configured to store “payload to disk,” sometimes encrypted data is stored directly into the <INSTALL-DIR>\shared\ folder instead of <INSTALL-DIR>\shared\receiverincoming folder.
- When uninstalling the PHINMS software, after the progress bar says “Finished”, click the QUIT button to exit the process.
- When the auto delete functionality is first turned on to delete older data; PHINMS waits until the start of the next cycle before any actual deletion occurs. This is not a real-time deletion capability.
- When a PHINMS Sender is installed for the first time, the Sender’s log file indicates that the preconfigured Sender's keyfile cert.pfx doesn't exist. This error can be ignored.
- When the sent and received messages are deleted from inside the Console, the deletion is not immediately reflected in the Console until the refresh button is clicked.
- PHINMS Console Tray Icon will not close when the Tomcat service is stopped.
- Remote Admin console using a browser is limited to updating service/action pairs.
- The ebXML Digital Signature (“signed acknowledge”) feature does not work in this release.
- Some of the PHINMS 2.8.01 SP1 console fields have validations. Validations for all fields will be in a future release.
- Chunking (sending payloads larger than approx. 10 MB) only works with direct send and does not work with Route not Read. If an end user needs to use chunking and needs to send/poll RnR messages, then two instances of a PHINMS Sender will be required: one instance for direct-send with chunking turn on, and the other PHINMS Sender to for RnR messages with chunking turned off.
- The Receiver logs encrypted messages in the \install directory\logs\receiver\ directory whereas it generates log files for unencrypted messages into the \install directory\logs directory. This is a known anomaly and will be fixed in a future release.

4.2 Additional Information and Recommendations

- The upgrade install wizard provides the option to keep or delete folder and files from previous installations. It is recommended to backup installation folder of previous version before upgrading to maintain certificates and data if any.
- The receiver does not append the timestamp in the file name for the zero payload messages.
- When chunked messages are received, some chunks may have a zero size payload. This is no need for concern, as the Receiver assembles all chunked messages after it receives the last chunked message.
- Online help has been removed from PHINMS 2.8.01 SP1 console Alarms will not send an email until all the fields are populated in the Console.
- Default JDBC parameters are set for MS SQL Server to be SQL Server 2005.
- When the Console is hidden using the Hide feature, login information will need to be provided when the console is reopened.
- Default Routes for CDC Staging and Production have been updated to the new URLs.
- As with prior releases, PHINMS 2.8.01 SP1 does not have MS SQL Server, Oracle, and MySQL JDBC drivers (JDBC jar files) bundled with the release. End users using any of those databases as a transport queue or worker queue need to download those drivers from the related vendor and import them using PHINMS Console.
- Before starting the process of upgrading from a prior PHINMS release, you must first stop any running PHINMS application before it is upgraded. If existing PHINMS software is running as a Windows Service, end users should stop the service; otherwise stop the PHINMS software from the command window if it running in command line mode.

Contact the PHINMS Support Team when a bug or limitation is found. Navigate to www.cdc.gov/phinf/phinms and click on the Contact PHINMS email link or contact the CDC PHIN Helpdesk at PHINtech@cdc.gov .

5 FILES LIST

This release consists of the following files shown in the table below.

Filename	Description
PHINMS-2.8.01_SP1-install.exe	Installation file on Windows XP/Vista/7/ 2003/2008

6 FOLDERS LIST

The following figure will be the installation folder organization after installing or upgrading to 2.8.01 SP1.

The figure below is a folder image of PHINMS 2.8.01 SP1 installed under C:\Program Files\ directory, under which there are two important folders: 2.8.01 SP1 Folder and Shared Folder. The 2.8.01 SP1 Folder contains the 2.8.00 runtime data and files. The Shared Folder contains application-visible data folders, such as Sender outgoing, Sender incoming and Receiver incoming folders. It is important to point out the applications may need to modify their configuration files to point to the new outgoing folder under Shared Folder within 2.8.01 SP1 installation.

PHINMS 2.8.01 SP1 Sender and Receiver log files are located in the PhinMS\logs\ folder.

- [-] PHINMS2.8.01
 - [-] appserver
 - bin
 - conf
 - endorsed
 - lib
 - logs
 - temp
 - [-] webapps
 - [-] receiver
 - [-] ROOT
 - [-] work
 - [-] backup
 - [-] receiver
 - [-] sender
 - [-] bin
 - [-] dbtools
 - scripts
 - utilities
 - [-] config
 - backup
 - [-] console
 - handlers
 - [-] receiver
 - [-] sender
 - [-] doc
 - [-] jdk
 - lib
 - [-] logs
 - handlers
 - [-] receiver
 - registration
 - scheduler
 - sender
 - [-] security
 - [-] shared
 - acknowledgments
 - [-] database
 - filedescriptors
 - outgoing
 - payloaddir
 - processed
 - receiverincoming
 - receivermultiblockDir
 - senderincoming
 - senderldapCache
 - sendermultiblockDir
 - tempfileslocation
 - Uninstaller